

UNITED STATES PATENT AND TRADEMARK OFFICE

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AMENDMENT

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Conditioned upon entry of new claims 37-71, cancel claims 1-36.

10 Kindly enter new claims 37-71 as follows:

37. A laser for emitting pulsed electromagnetic radiation, said laser comprising
an optical resonator;

a solid-state laser gain medium placed inside said optical resonator, said laser gain medium having
two end faces, and at least one of said end faces comprising a cooling surface;

15 means for cooling said laser gain medium via said cooling surface;

means for exciting said laser gain medium to emit electromagnetic radiation; and

means for passive mode locking comprising a saturable absorber placed inside said optical
resonator.20 38. The laser according to claim 37, wherein said laser gain medium is in the shape of a thin plate
or layer with two end faces, the extension of said end faces being greater than a thickness of said
plate or layer measured essentially in a direction perpendicular to one of said end faces.